Serial No. 10/608,286 Page 2

## <u>AMENDMENTS</u>

## IN THE CLAIMS:

Please amend claim 3, and add new claims 13-18 as follows below:

1. (Previously presented) A method for forming a dual damascene structure, comprising:

providing a silicon substrate containing one or more electronic devices; forming a first dielectric layer of a first thickness over said silicon substrate; forming a first etch stop layer over said first dielectric layer;

forming a second dielectric layer of a second thickness over said first dielectric layer;

forming an anti-reflective coating layer over said dielectric layer prior to etching of a first trench;

etching said first trench in said second dielectric layer; and simultaneously etching a second trench to a first depth in said second dielectric layer and etching said first trench in said first dielectric layer wherein the first depth is approximately equal to the second thickness.

- 2. (Original) The method of claim 1 wherein said anti-reflective coating layer comprises silicon oxynitride.
- 3. (Currently amended) The method of claim [[2]] 1 wherein first etch stop layer is formed with material selected from the group consisting of silicon carbide and silicon nitride.
  - 4. (Original) The method of claim 1 wherein said first dielectric layer is FSG.

- 5. (Original) The method of claim 1 wherein said second dielectric layer is FSG.
  - 6. (Original) The method of claim 1 further comprising: forming a liner film in said first trench and said second trench; and forming a contiguous copper layer in said first trench and said second trench.
- 7. (Previously presented) A method of forming a copper filled dual damascene structure, comprising:

providing a silicon substrate containing one or more electronic devices; forming a first dielectric layer of a first thickness over said silicon substrate; forming a first etch stop layer over said first dielectric layer; forming a second dielectric layer of a second thickness over said first dielectric

layer;

forming a silicon oxynitride anti-reflective coating layer over said second dielectric layer prior to etching a first trench in said second dielectric layer;

etching said first trench to a first depth in said second dielectric layer and said first dielectric layer wherein the first depth is greater than the thickness of said second dielectric layer; and

simultaneously etching a second trench to a second depth in said second dielectric layer and etching said first trench in said first dielectric layer wherein the second depth is approximately equal to the second thickness.

8. (Previously presented) The method of claim 7 wherein said silicon nitride anti-reflective coating layer comprises 30 to 50 atomic percent of silicon, 20 to 50 atomic percent of oxygen, 2 to 17 atomic percent of nitrogen, and 7 to 35 atomic percent of hydrogen.

Serial No. 10/608,286

Page 4

9. (Previously presented) The method of claim 7 wherein first etch stop layer is formed with material selected from the group consisting of silicon carbide and silicon nitride.

- 10. (Previously presented) The method of claim 7 wherein said first dielectric layer is FSG.
- 11. (Previously presented) The method of claim 7 wherein said second dielectric layer is FSG.
  - 12. (Previously presented) The method of claim 7 further comprising: forming a liner film in said first trench and said second trench; and forming a contiguous copper layer in said first trench and said second trench.
- 13. (New) A method for forming a dual damascene structure, comprising: providing a silicon substrate containing one or more electronic devices; forming a first etch stop layer over the silicon substrate; forming a first dielectric layer over the first etch stop layer; forming a second etch stop layer over the first dielectric layer; forming a second dielectric layer over the second etch stop layer; forming an anti-reflective coating layer over the dielectric layer prior to etching of a first trench;

etching the first trench having a first width through the anti-reflective coating layer, the second dielectric layer, and the second etch stop layer; and

concurrently etching a second trench having a second width greater than the first width through the second dielectric layer down to the second etch stop layer and etching the first trench through the first dielectric layer down to the first etch stop layer, wherein the second trench overlies the first trench.

Serial No. 10/608,286

Page 5

14. (New) The method of claim 13, wherein the anti-reflective coating layer comprises silicon oxynitride.

- 15. (New) The method of claim 13, wherein first etch stop layer is formed with material selected from the group consisting of silicon carbide and silicon nitride.
- 16. (New) The method of claim 13, wherein the first dielectric layer comprises FSG or OSG.
- 17. (New) The method of claim 13, wherein the second dielectric layer comprises FSG or OSG.
  - 18. (New) The method of claim 13, further comprising: removing the first etch stop layer at a bottom portion of the first trench; forming a liner film in the first trench and the second trench; and forming a contiguous copper layer in the first trench and the second trench.